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Serial No.: 10/675,644

8

REMARKS

Kindly enter this Preliminary Amendment before first action on the merits. By this Preliminary Amendment, Applicants have amended the specification to correct minor typographical errors. These amendments introduce no new matter.

Respectfully submitted,

Anthony J. GOUNALIS

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Docket No. L0562.70037US00

Date: February 24, 2004

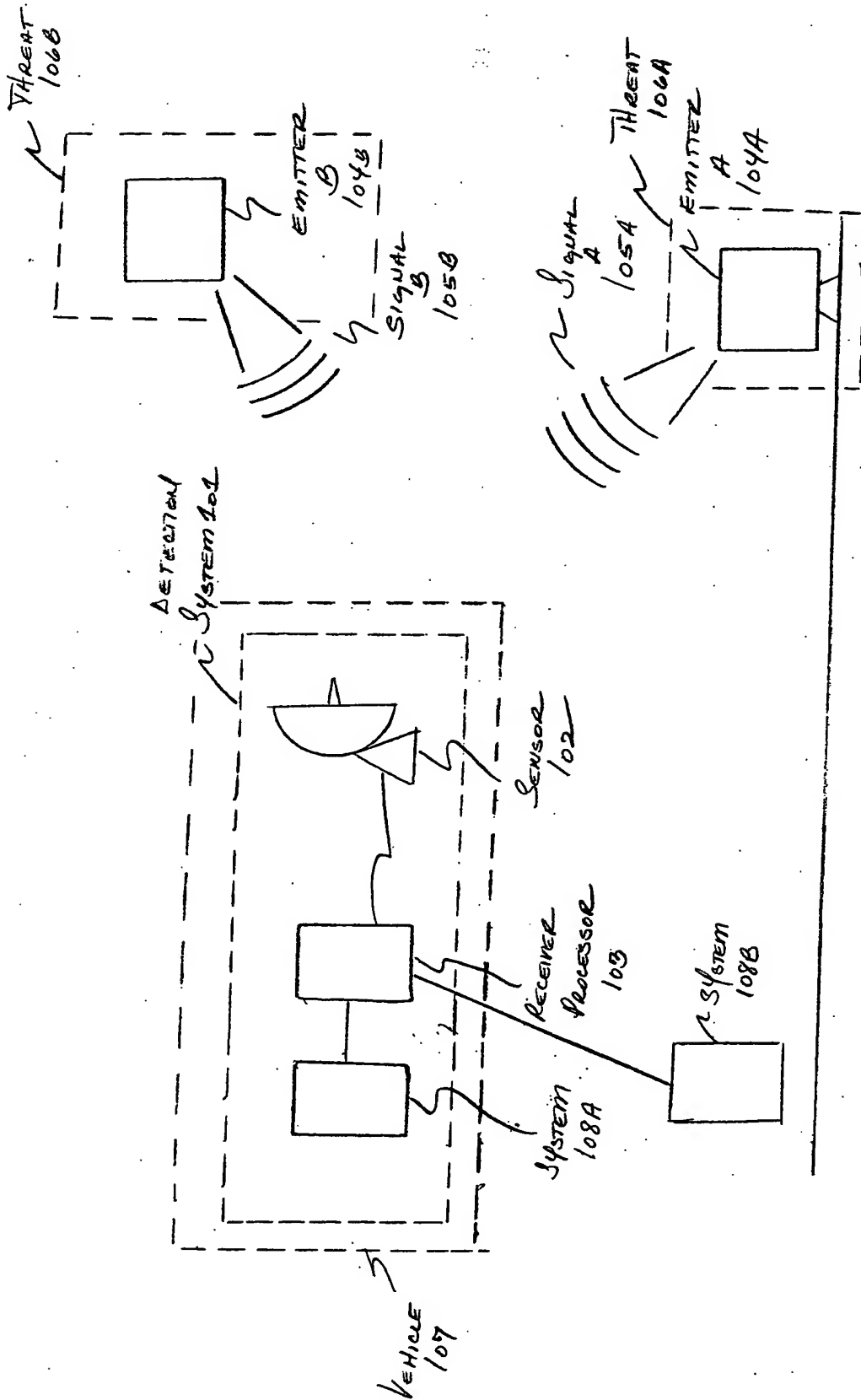


FIGURE 1

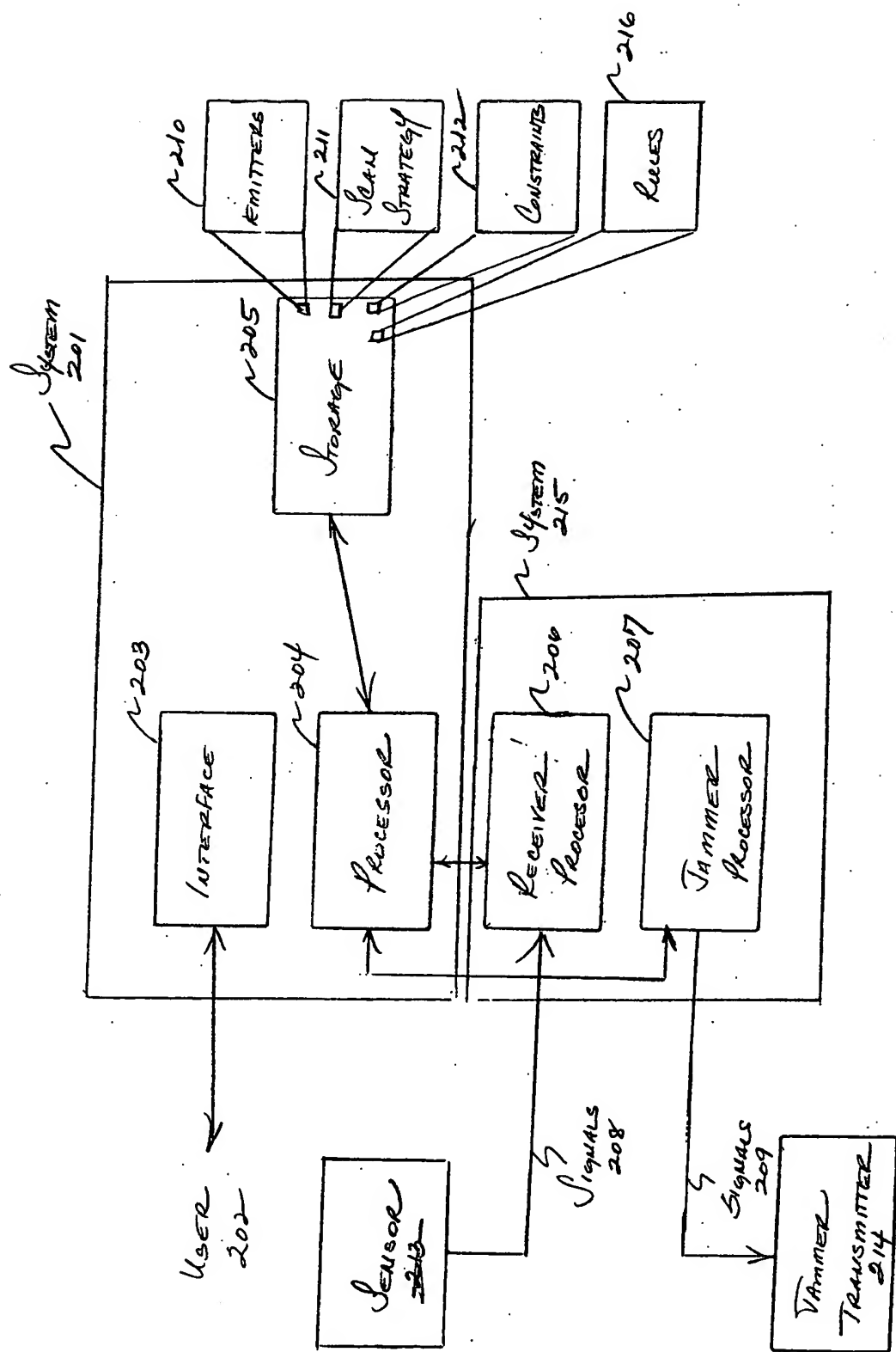
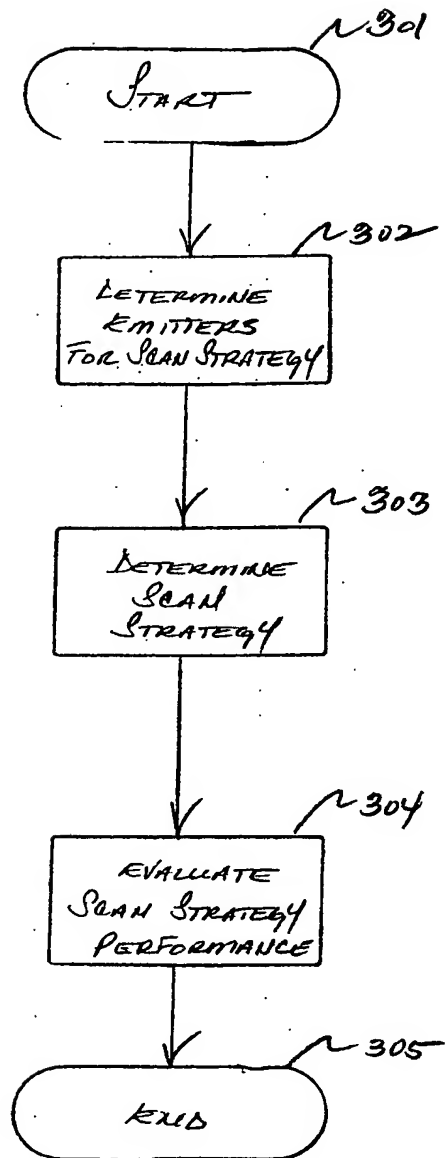


Figure 2



PROCESS
300

FIGURE 3

EMITTER DATABASE 401

EMITTER ENTRY 403

EMITTER ENTRY stop

EMITTER ENTRY stop

EMITTER ENTRY stop

EMITTER ENTRY stop

Figure 4

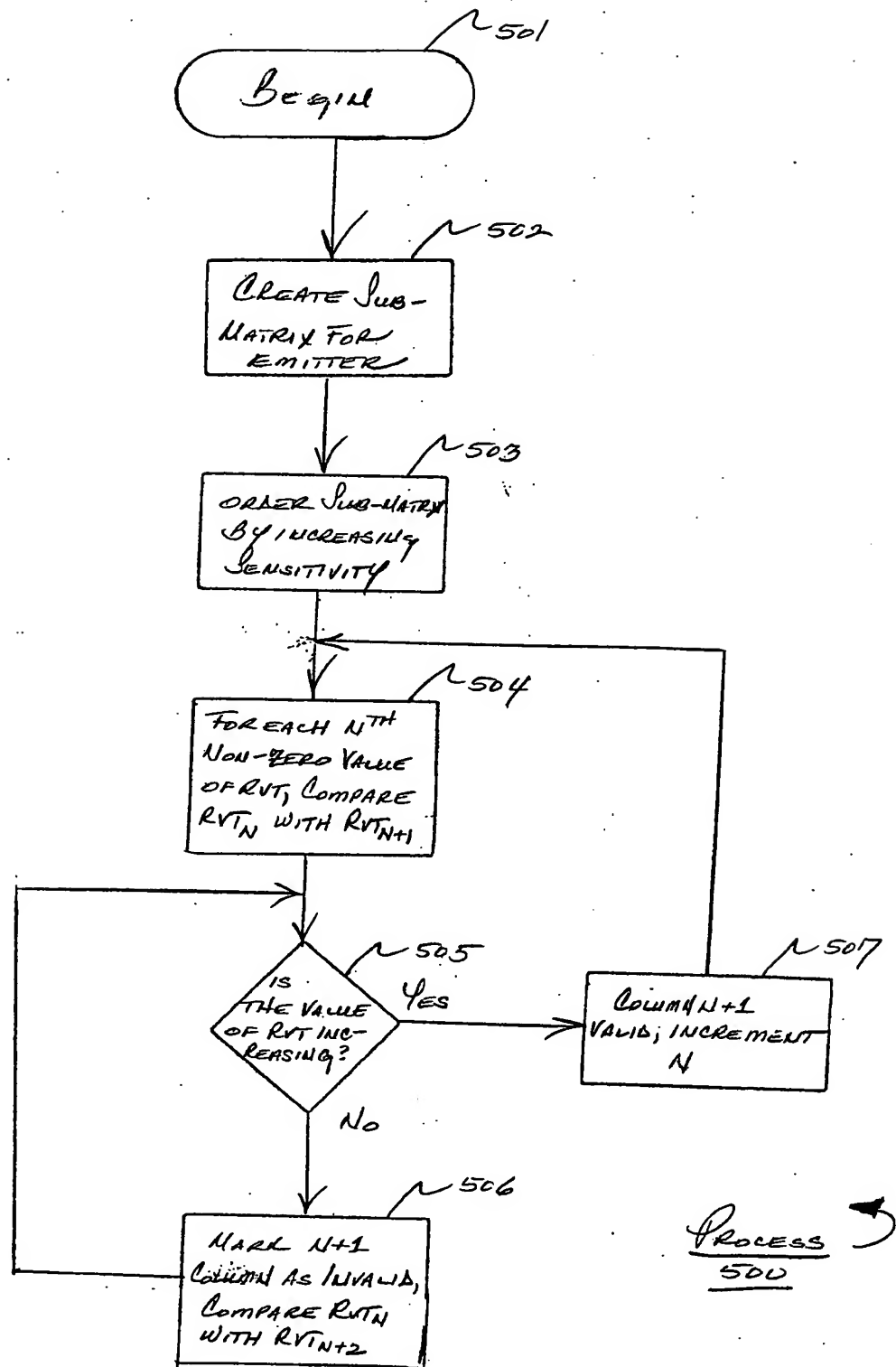


FIGURE 5

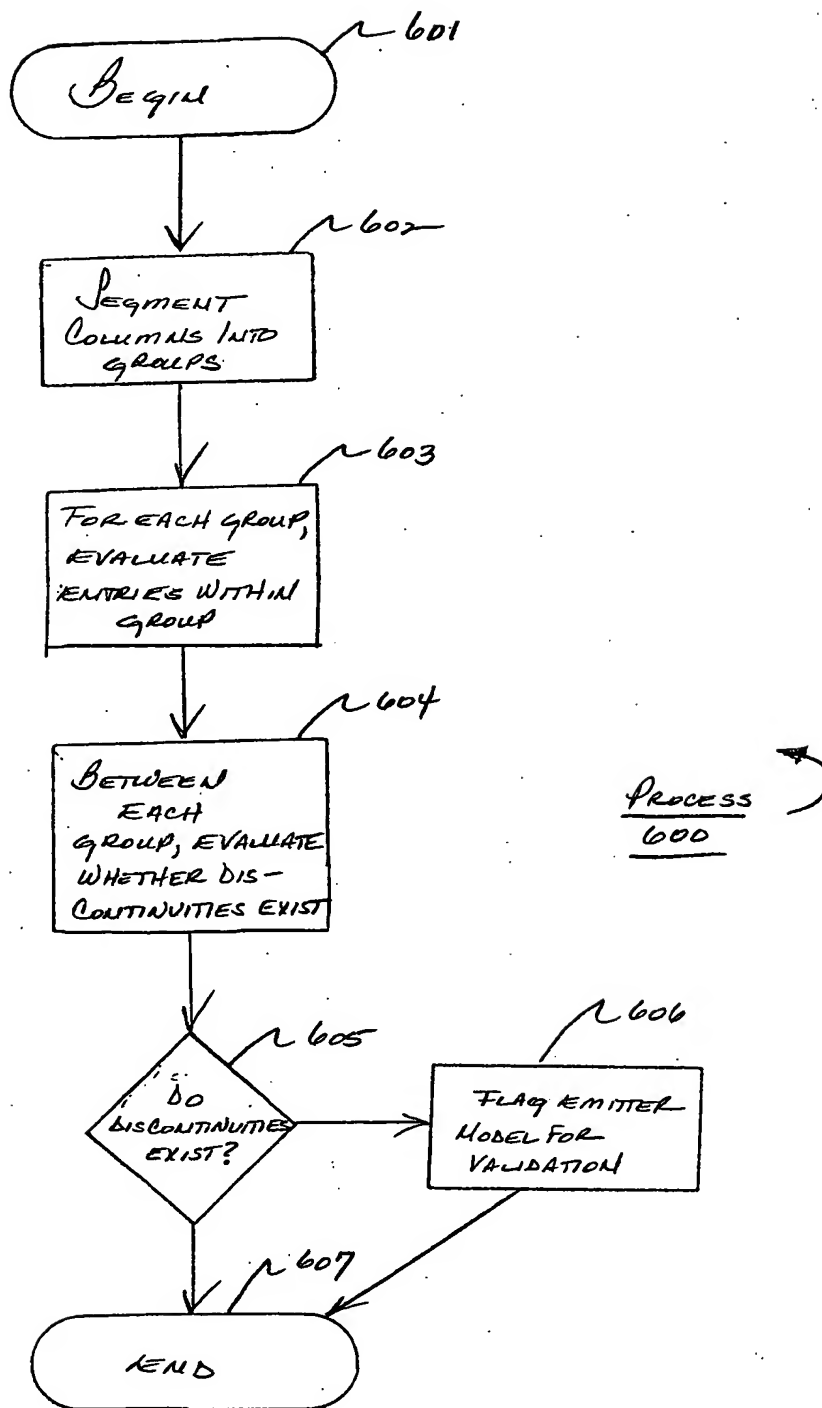


FIGURE 6

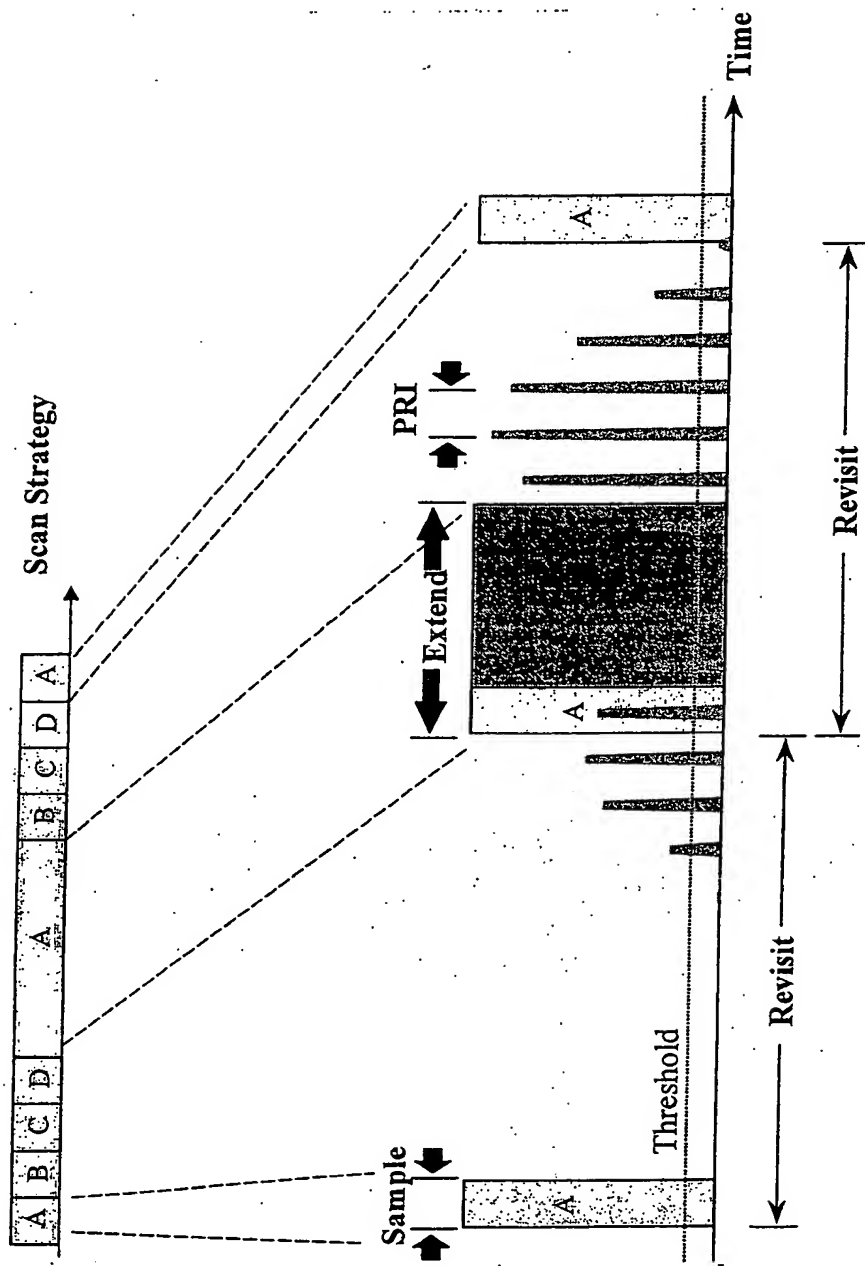
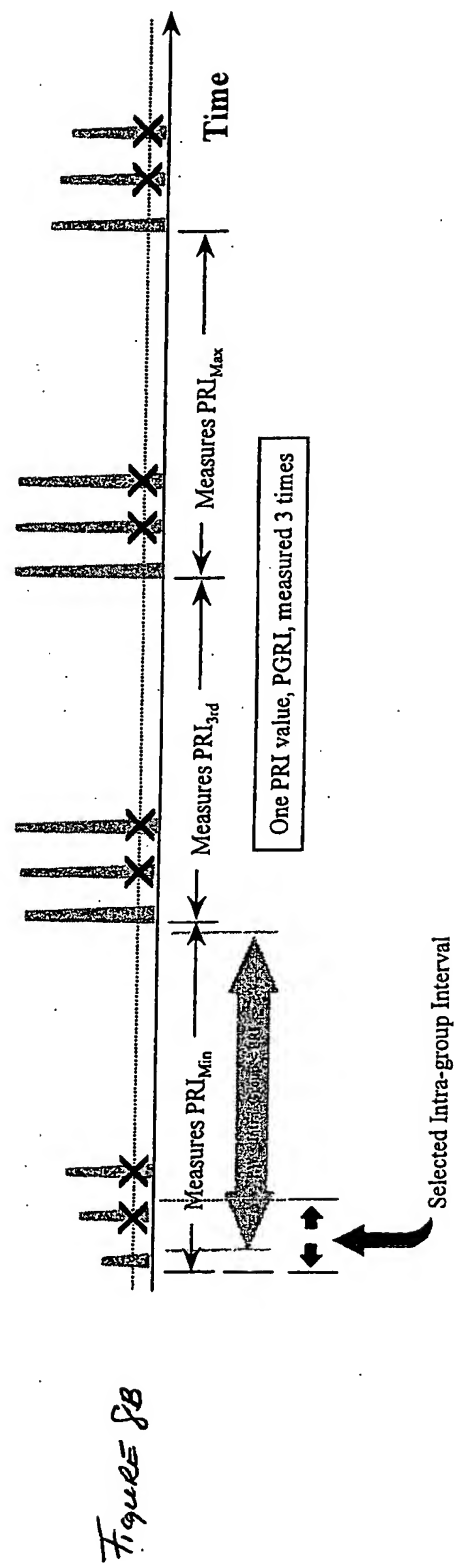
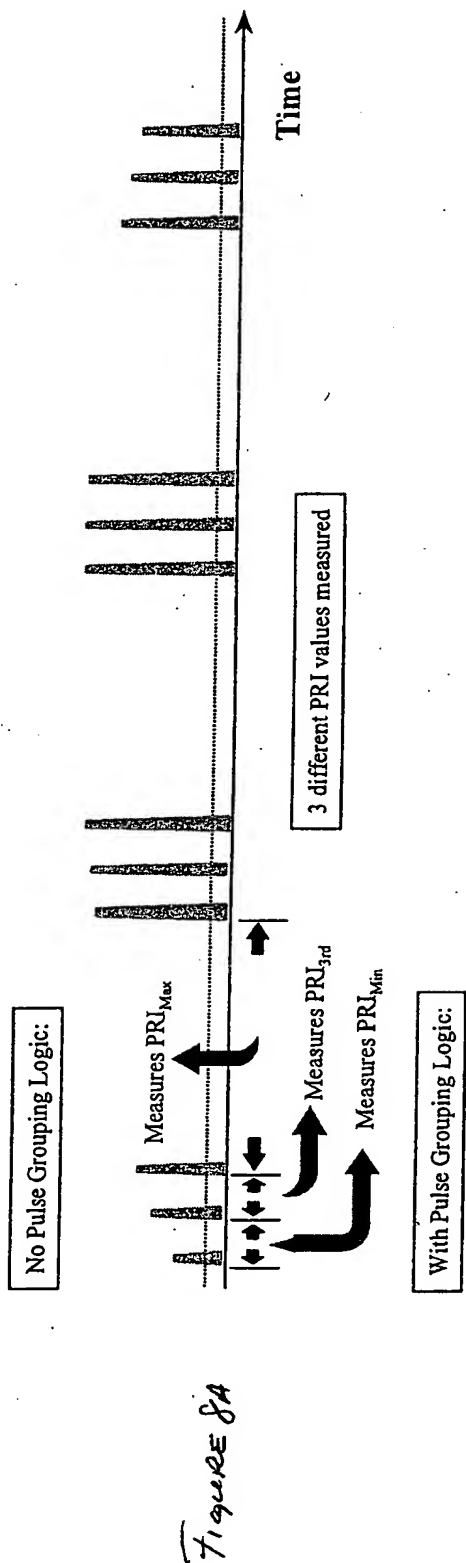


Figure 17



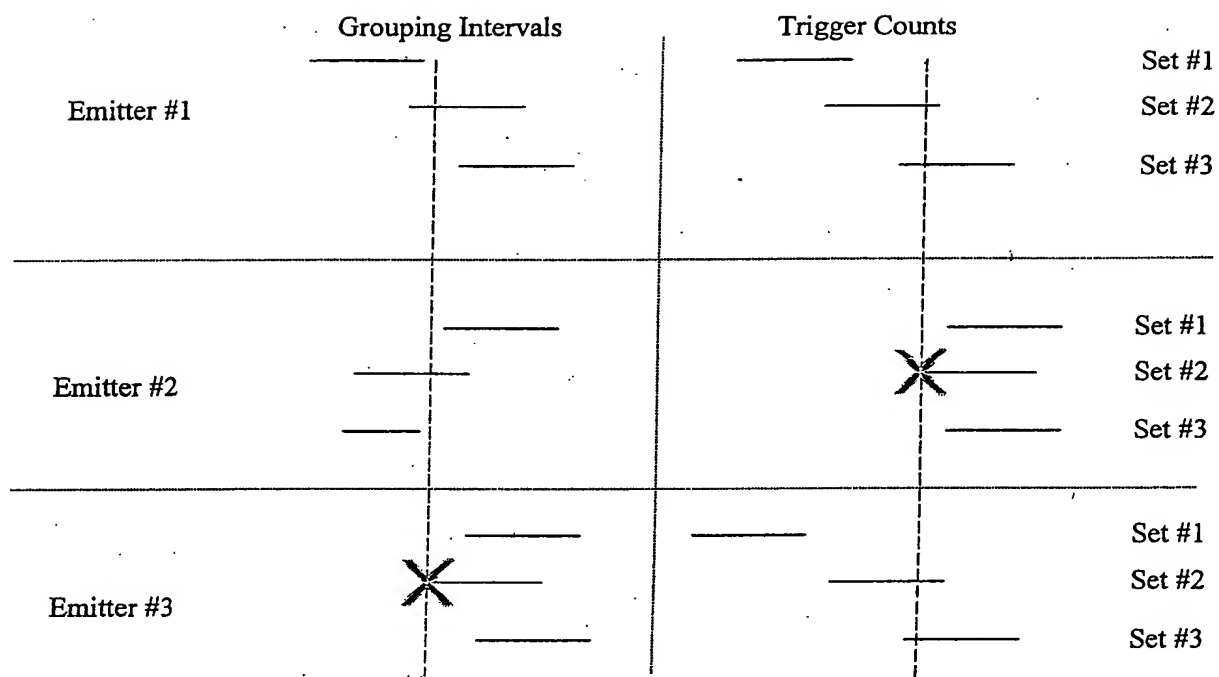
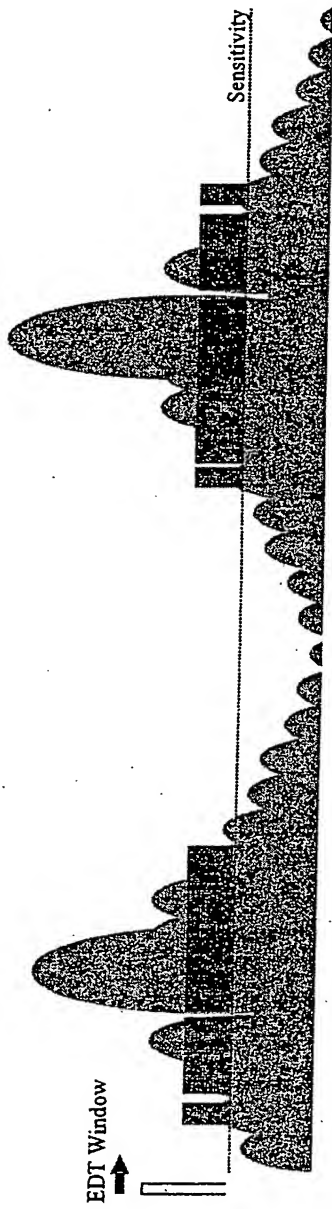


FIGURE 9

Figure 10A



Discrete Illuminations (TIBS)

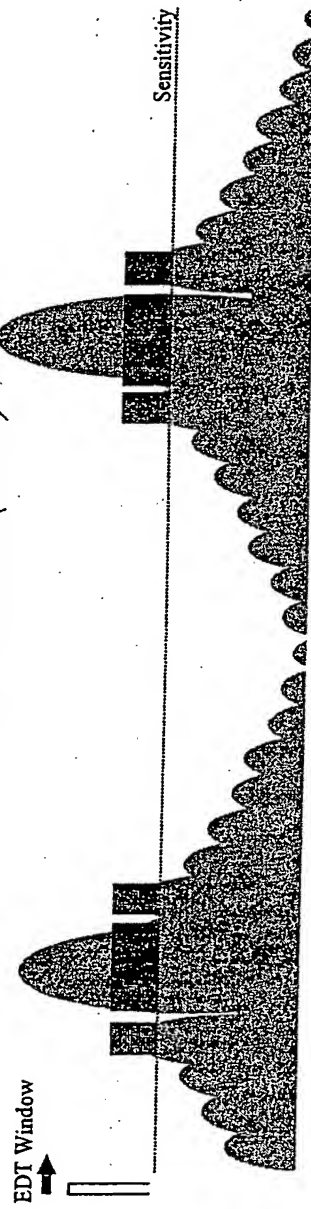
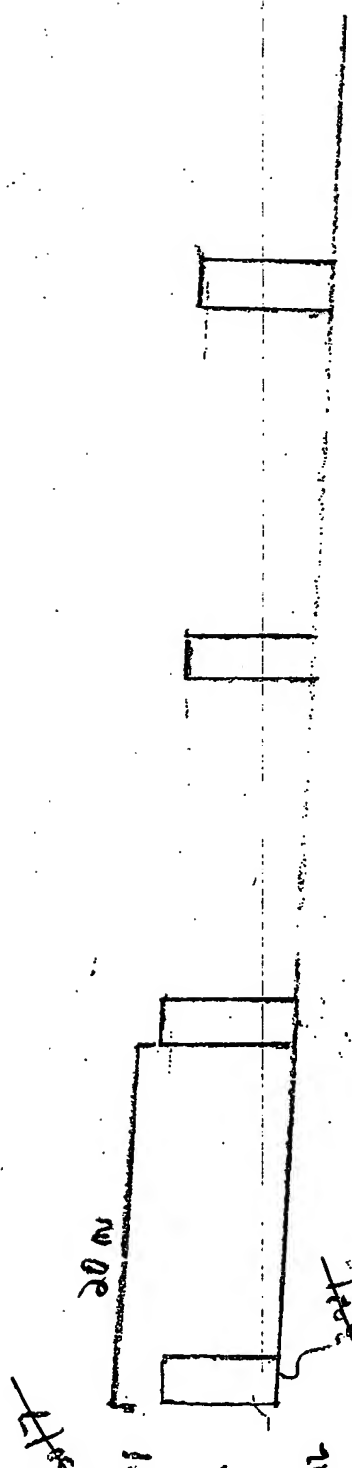


Figure 10B

1000 MHz 1050 MHz 1100 MHz 1150 MHz 1200 MHz 1250 MHz 1300 MHz 1350 MHz 4000 MHz

Dwell	1	2	3	4	5	6	7	8
Duration = 25ms	25ms	25ms	25ms	25ms	25ms	25ms	25ms	25ms

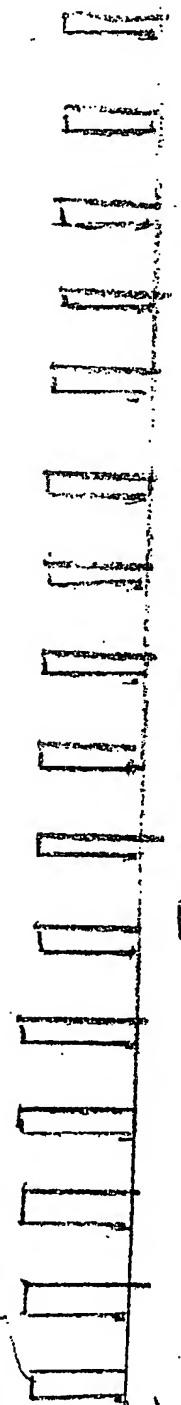
Time



Time

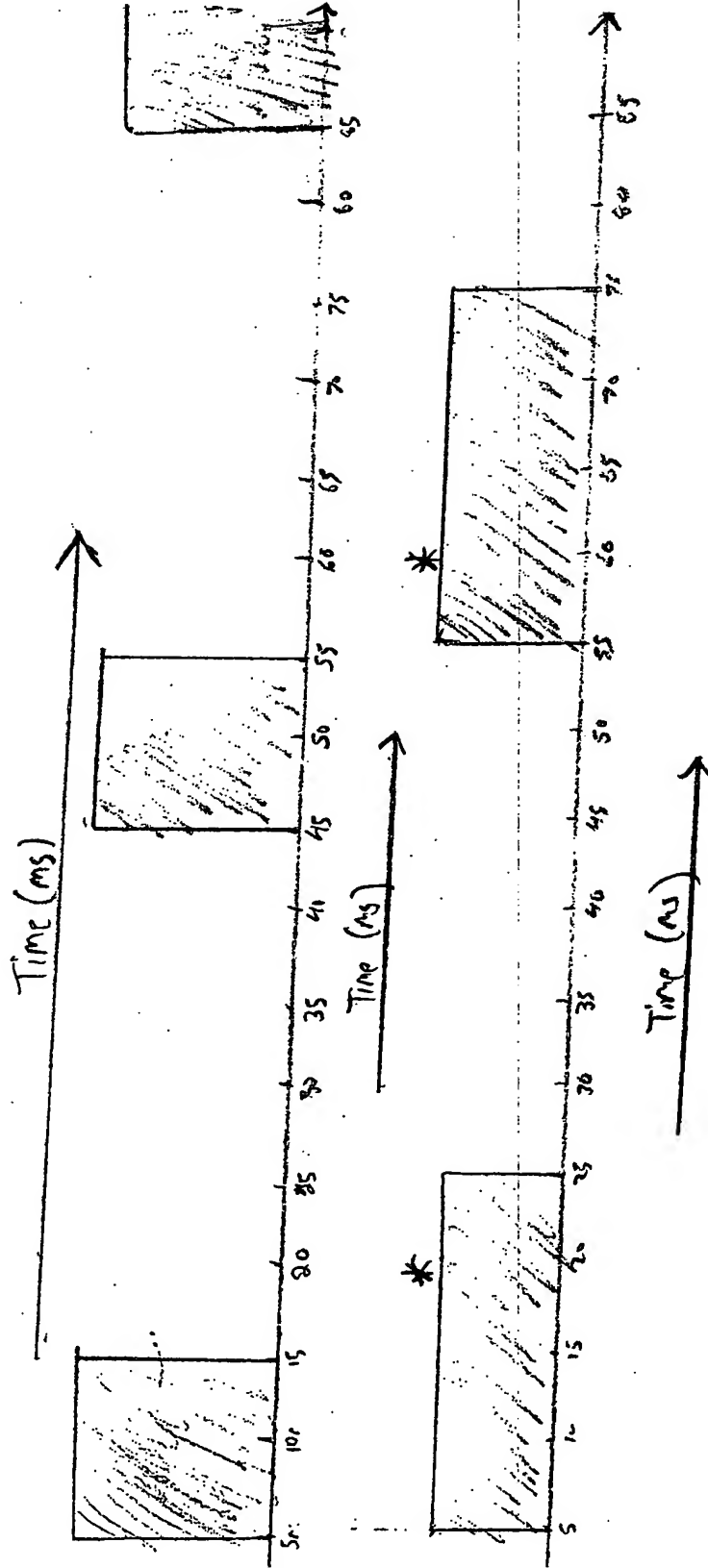
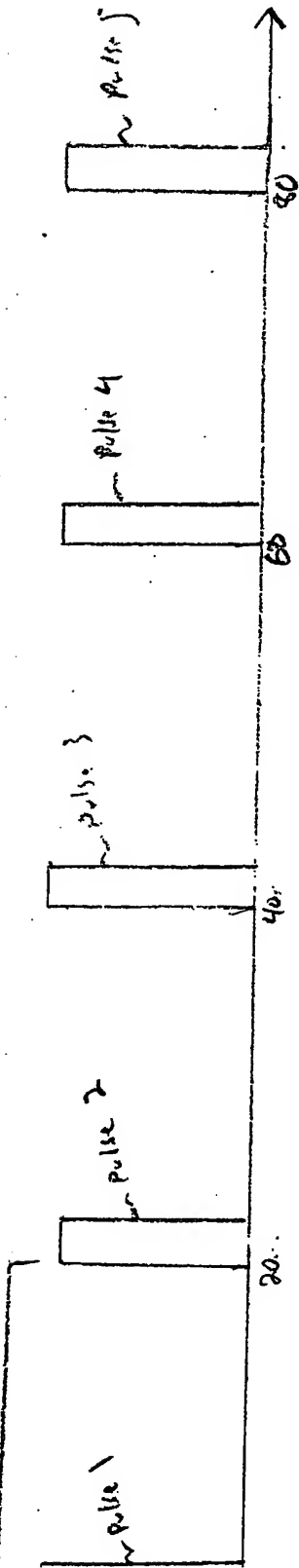
5ms

Figure 11



Time

PRI = 20ns



Solution 1
Drill Duration = 10ns
Revol Time = 40ms

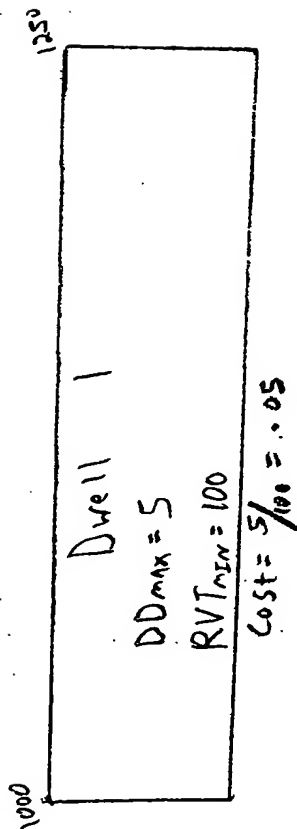
Solution 2
Drill Duration = 20ns
Revol Time = 50ms

Figure 12

4000

Emitter Name	Operating Mode 250 MHz IF 15 MHz VDD	Operating Mode 30 MHz IF 15 MHz VDD	RF Min (MHz)	RF Max (MHz)	Mod (ns)
E1	RV T 100 ns	RV T 650 ns	1000	1300	3
E2	RV T 100 ns	RV T 780 ns	1220	1350	5
E3	RV T 110 ns	RV T 330 ns	1510	1810	2
E4	RV T 130 ns	RV T 390 ns	1730	1860	4

Figure B



Solution 1

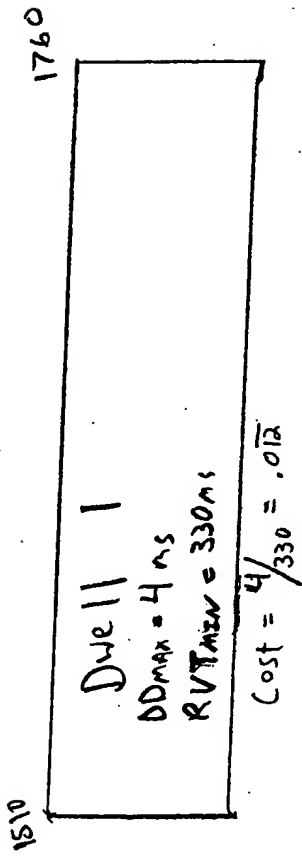
	1000	1050	1090	1120	1150	1180	1210	1240	1270
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9	
DD_{max}	DD_{max}	DD_{max}	DD_{max}	DD_{max}	DD_{max}	DD_{max}	DD_{max}	DD_{max}	
3	3	3	3	3	3	3	5	5	
RVT_{IN}	RVT_{IN}	RVT_{IN}	RVT_{IN}	RVT_{IN}	RVT_{IN}	RVT_{IN}	RVT_{IN}	RVT_{IN}	
650	650	650	650	650	650	650	650	650	
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	
$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{5}{650} + \frac{5}{650} =$									

Solution 2

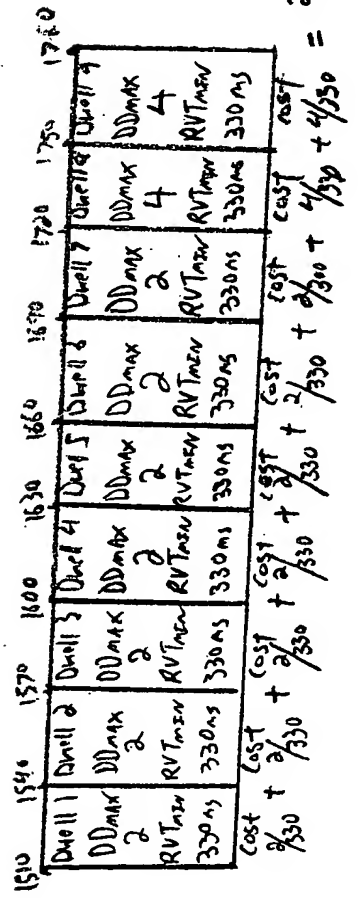
Total Cost

$$\frac{31}{650} \approx .048$$

Figure 14A



Solution 1



Solution 2

Figure 14B

Figure 15

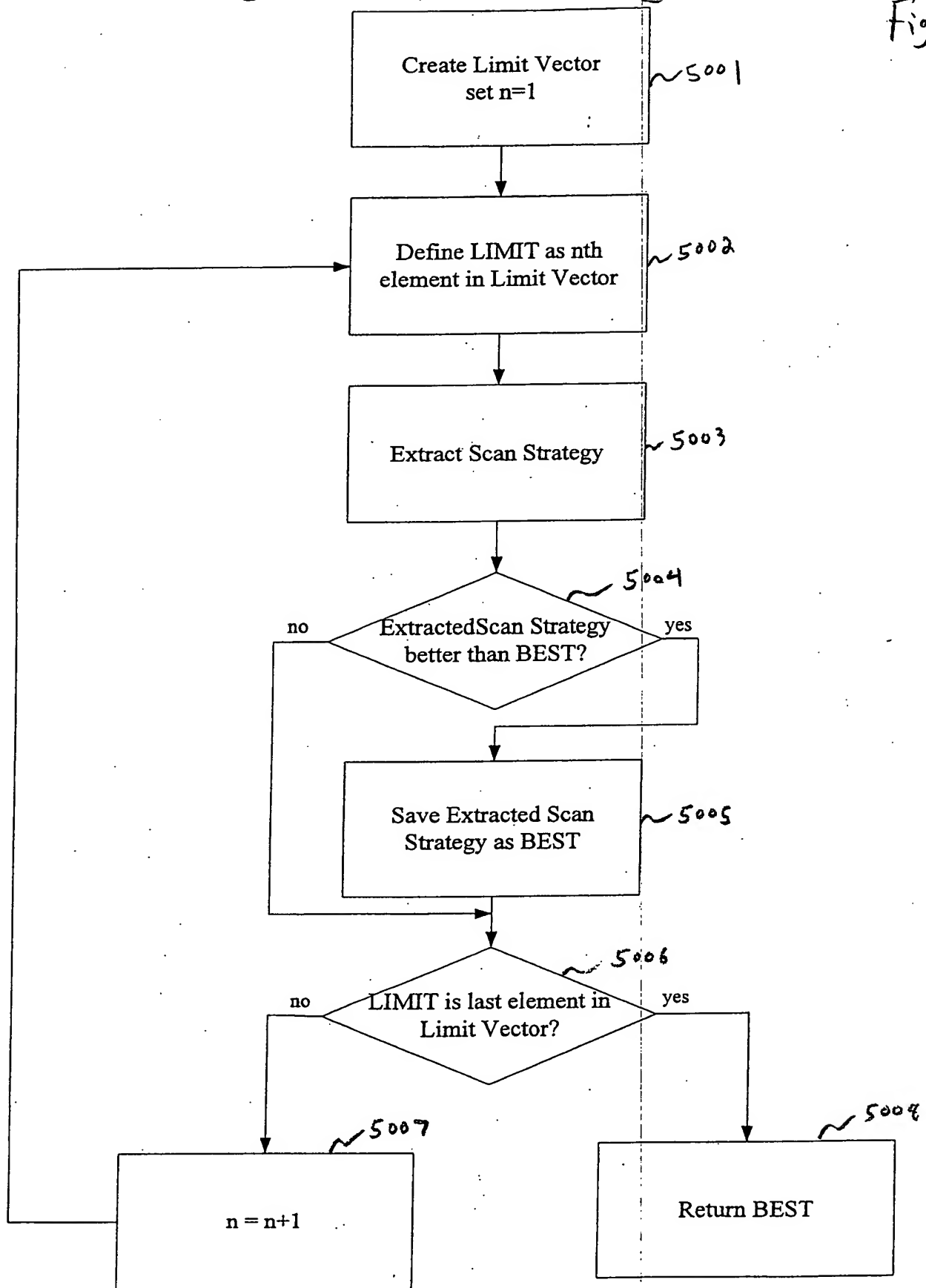
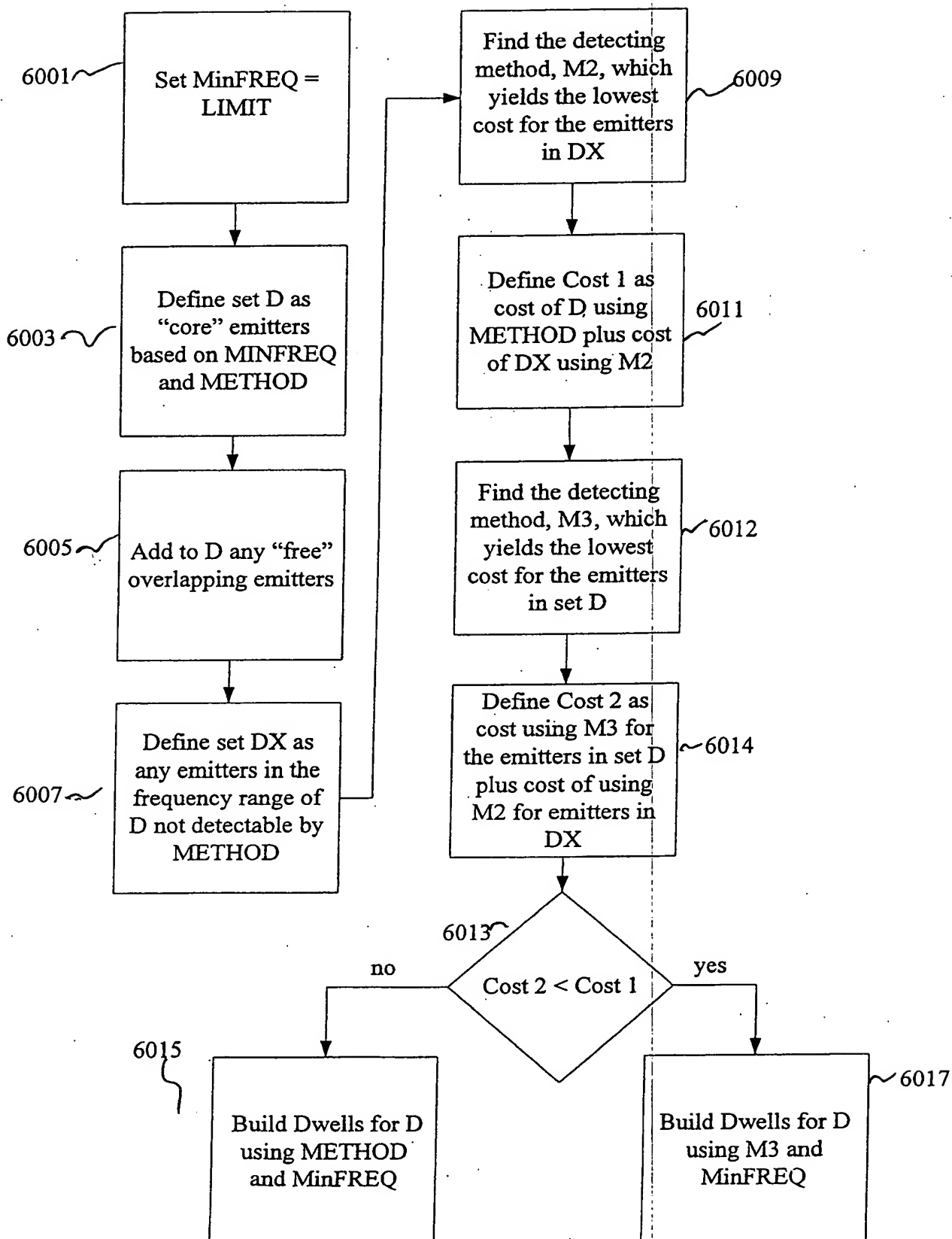


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

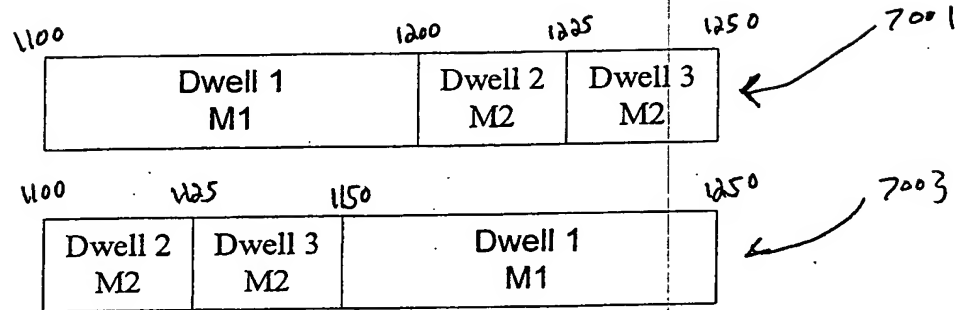
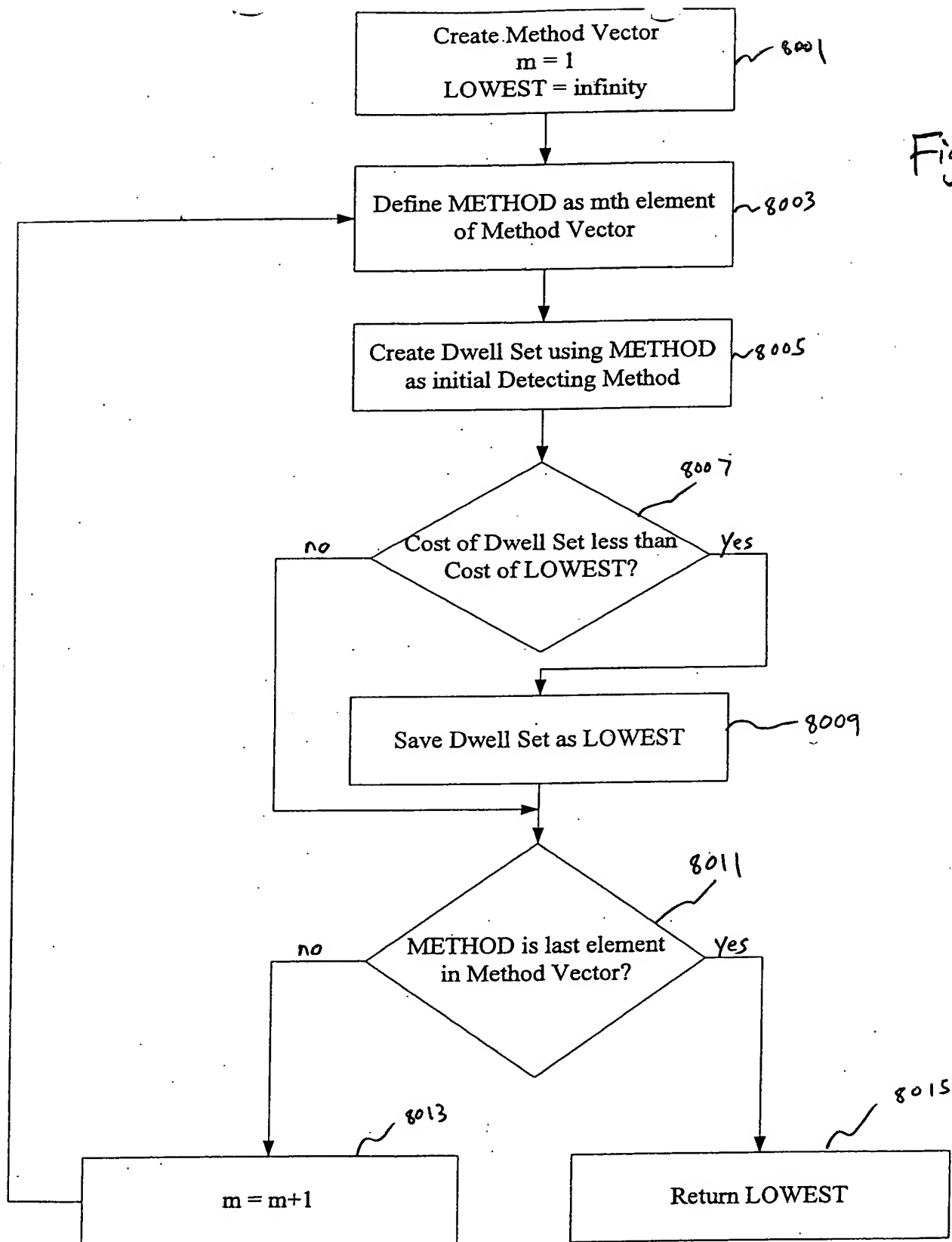


Figure 17

Figure 1:



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

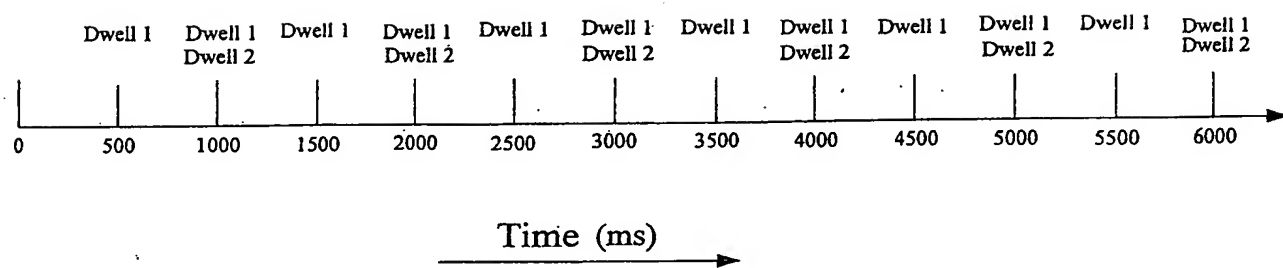


Figure 21

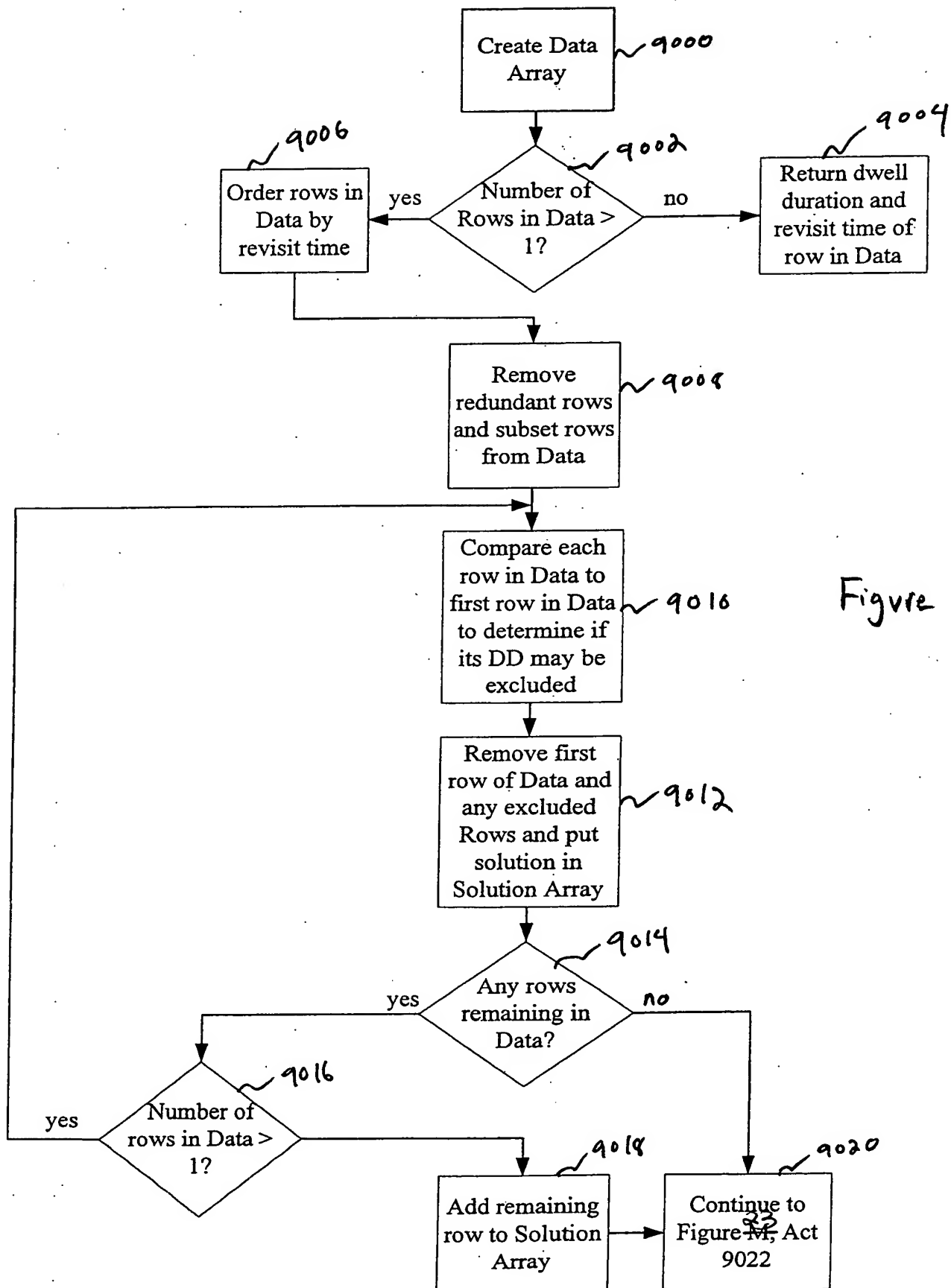


Figure 22

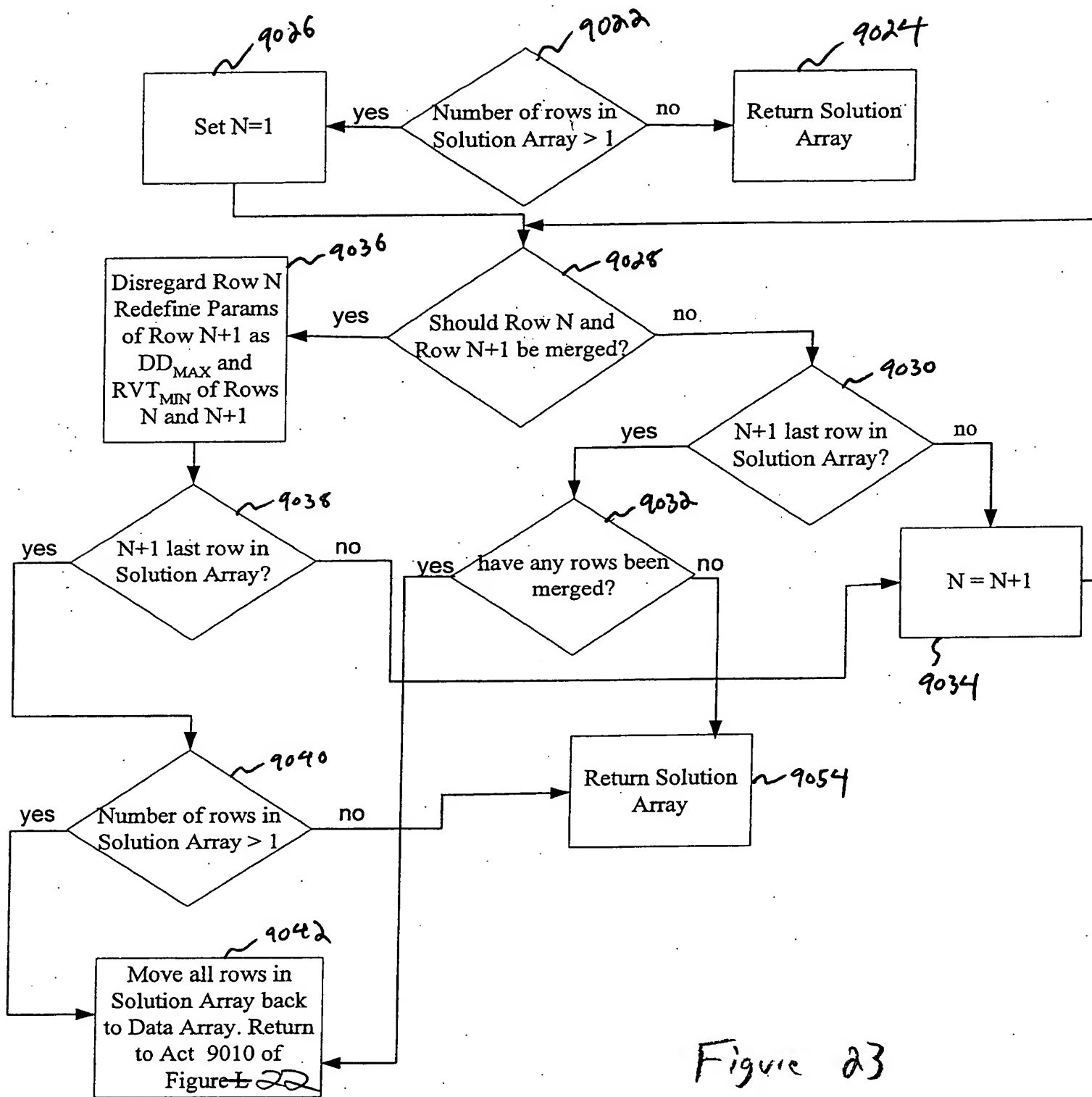


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9049
9049
~9050

Figure 24B

9051
9052

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

~9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

~9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

~9044

Data		
MDT	EDT	RVT
1	19	500
2	11	700

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

~9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

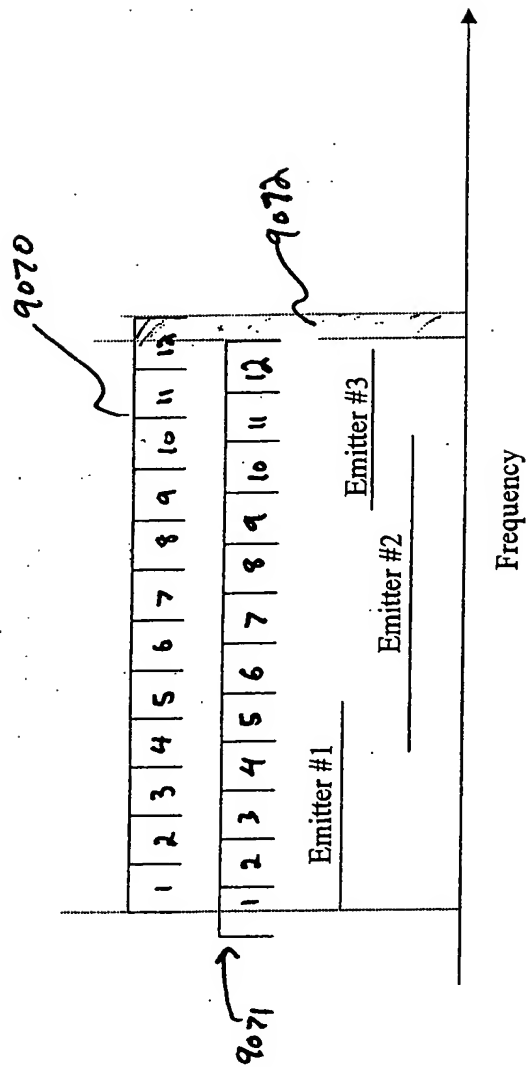


Figure 25

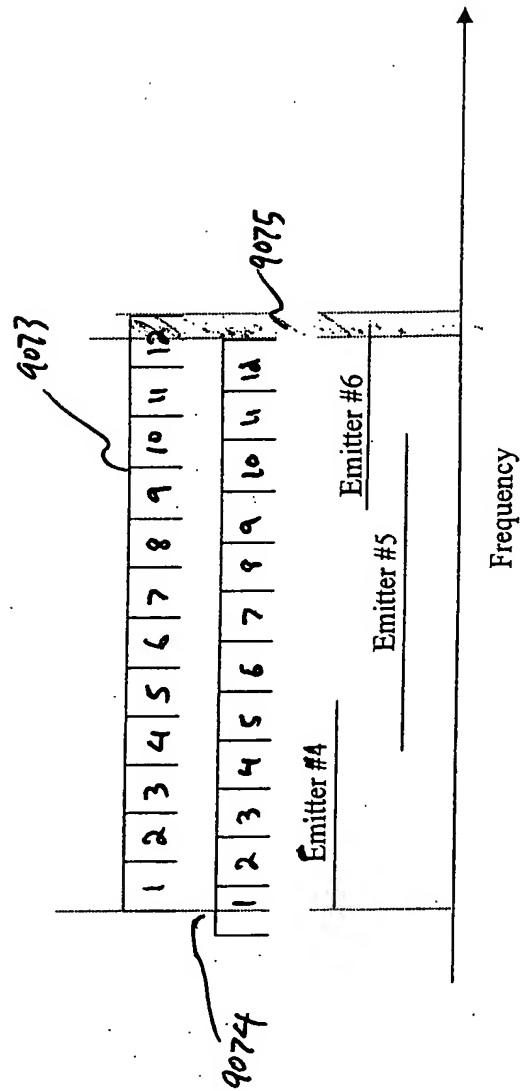


Figure 26

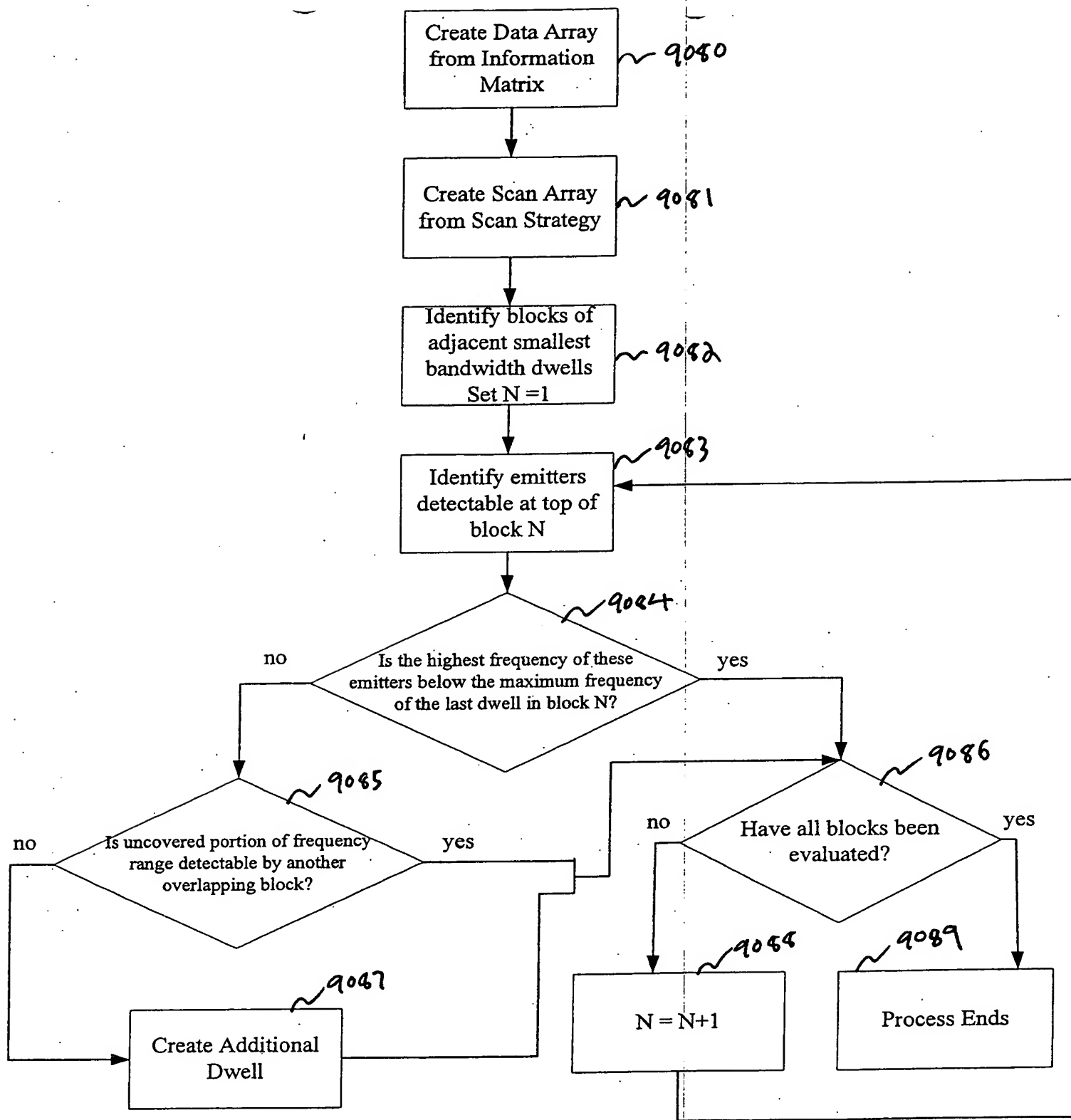


Figure 27

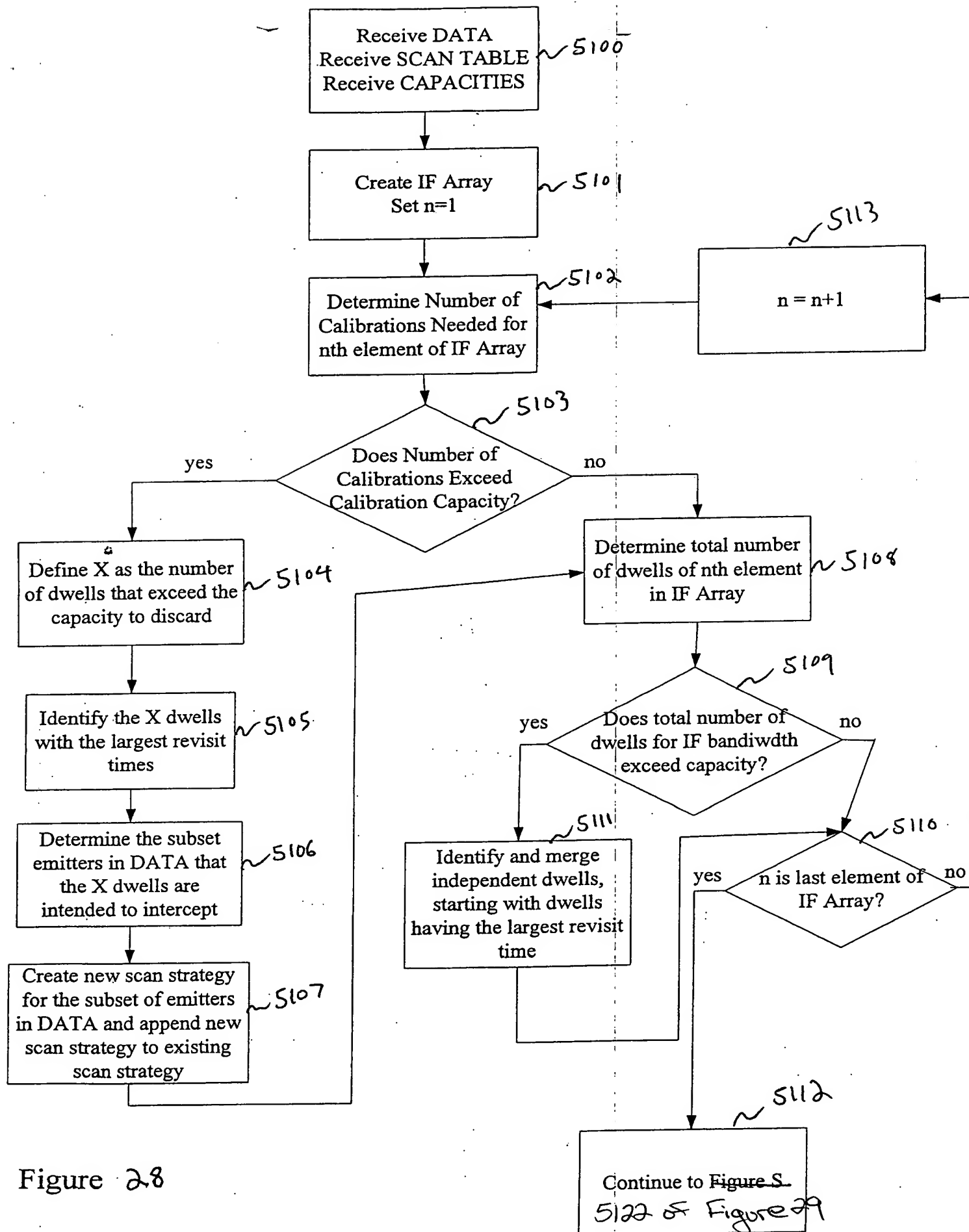


Figure 28

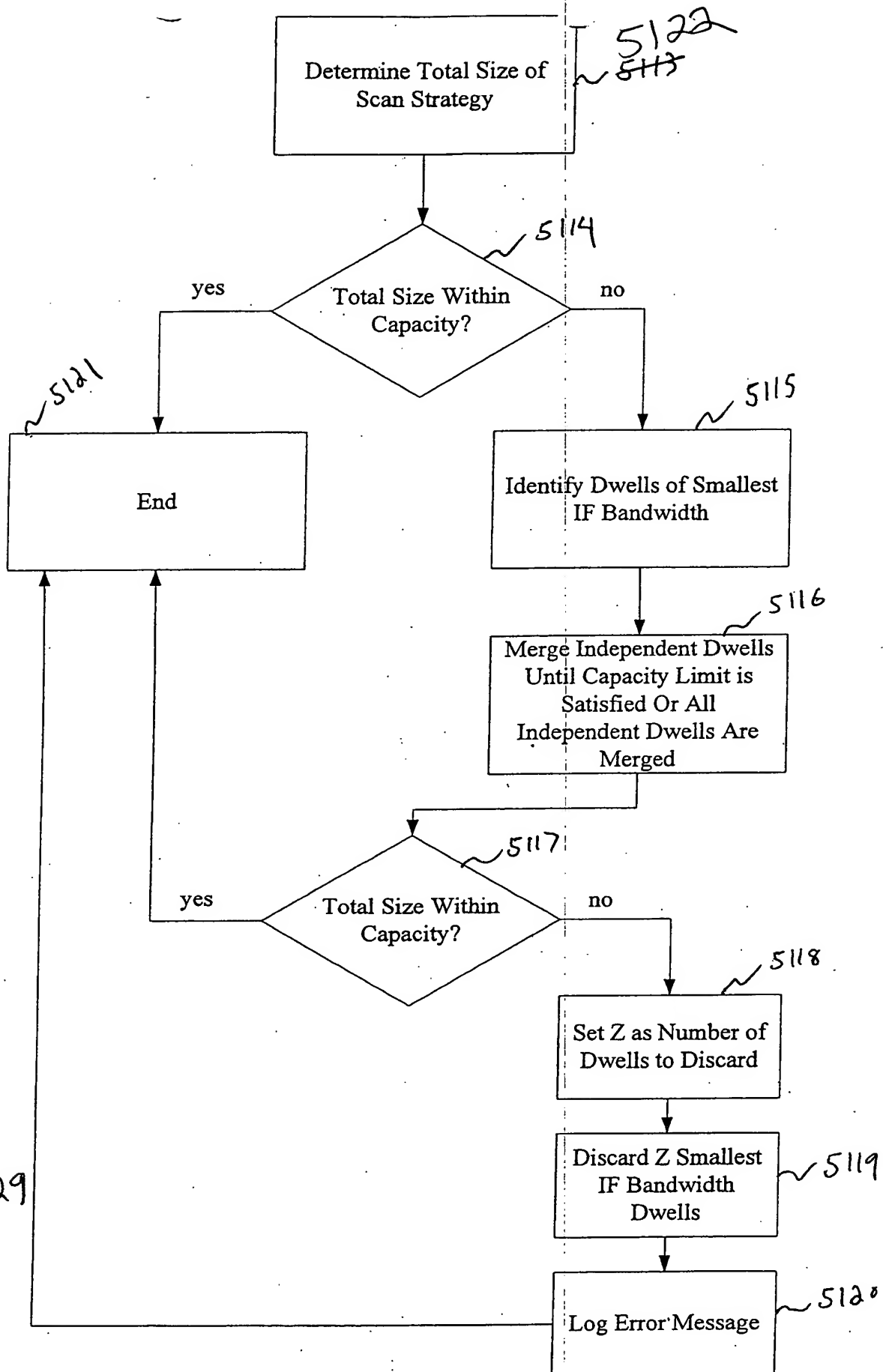


Figure 29

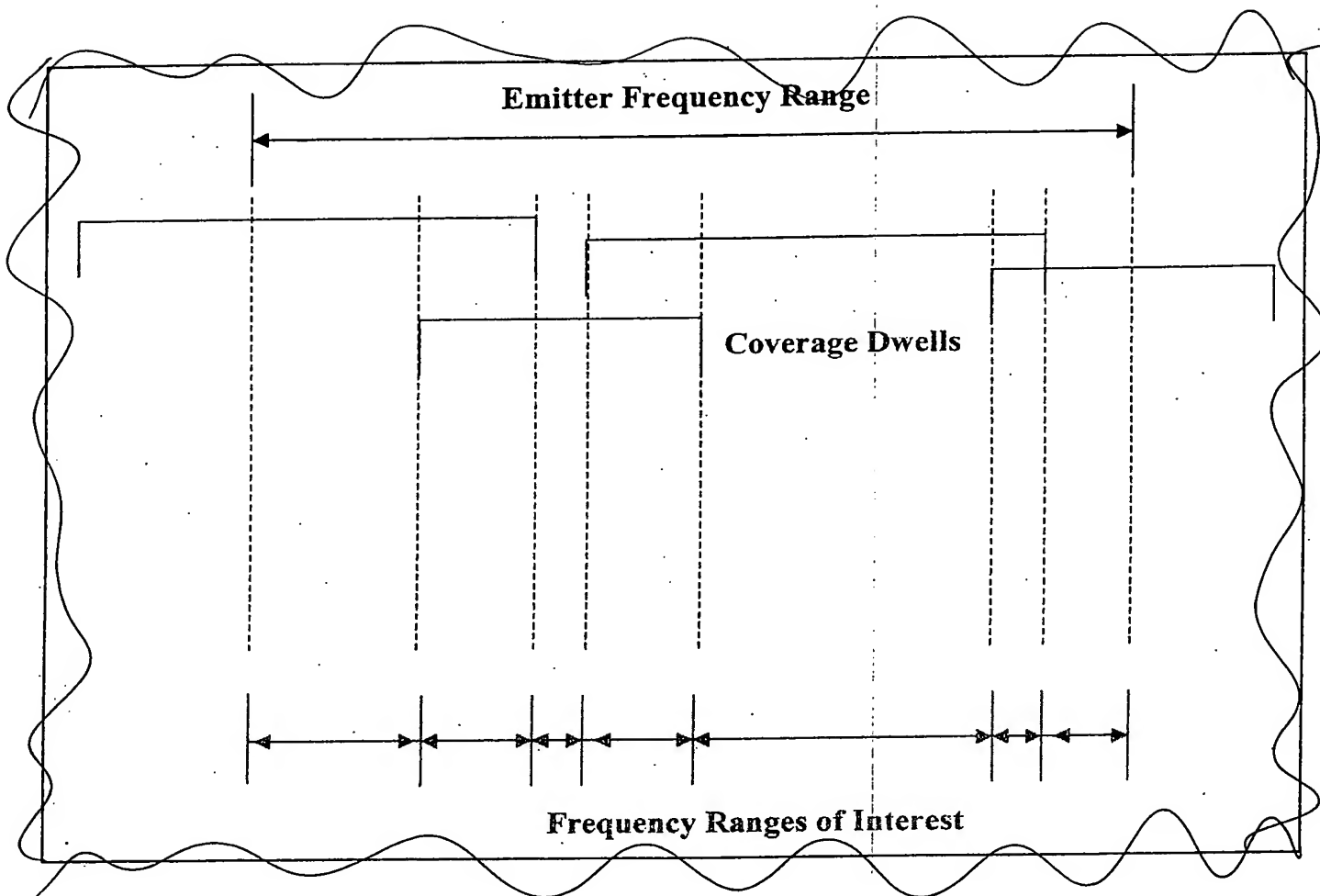


Figure 30

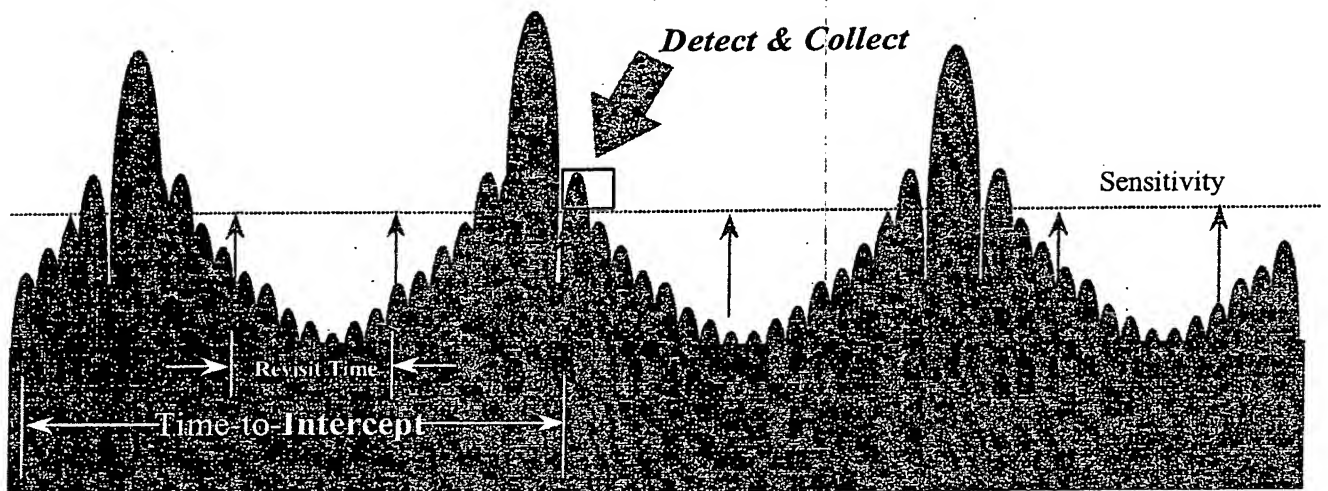


Figure 31

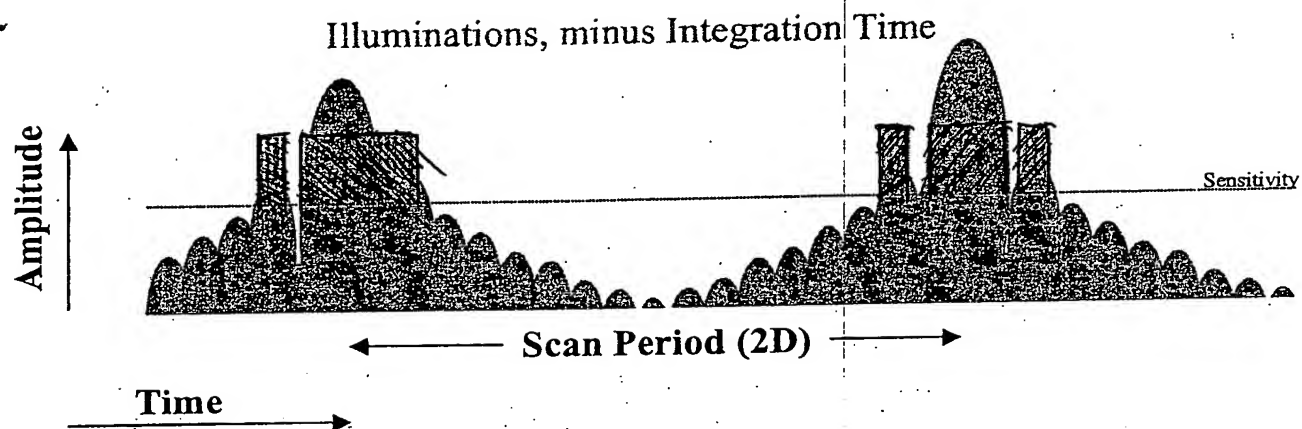


Figure 3d